

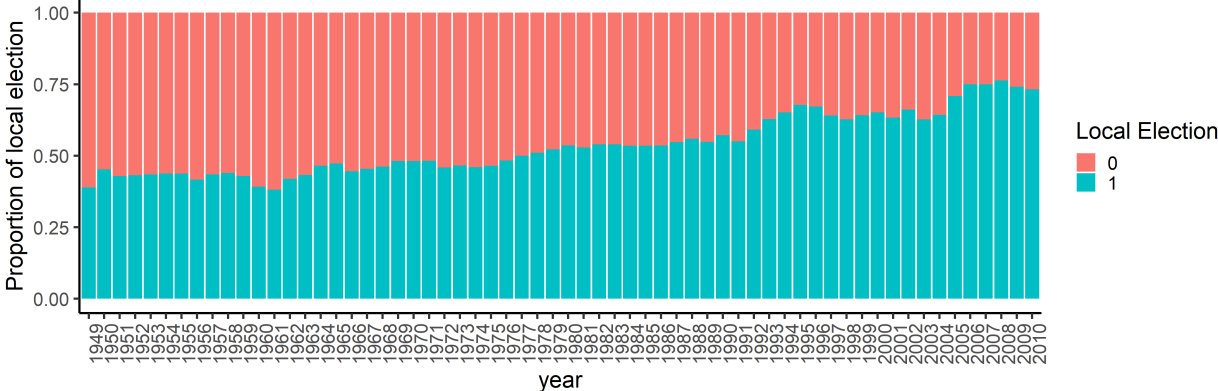
Subnational Elections and Media Freedom in Autocracies: Diffusion of Local Reputation and Regime Survival

Supplemental Materials

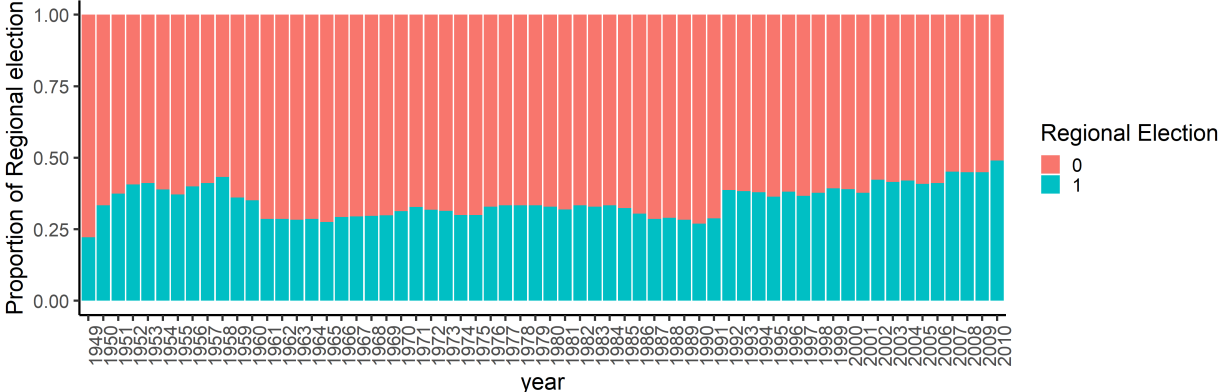
Contents

1	Proportion of Institutionalized Subnational Elections in Autocracies 1949-2010	2
2	The density plot of media freedom varying by subnational elections	3
3	National Elections and Subnational Elections in Autocracies	4
4	Relationship between Media Freedom and Subnational Government Index	5
5	Descriptive Statistics	6
5.1	Summary Statistics of Main Variables	6
5.2	List of regimes included in the analysis (1949-2010)	7
6	Additional Analyses	8
6.1	Alternative Measure of Local Election and Regional Election	8
6.2	Dependent Variable: All regime failure cases	10
6.3	No interaction	12
6.4	National election interaction included	13
6.5	Interaction with Human Rights Index	15
6.6	Interaction with V-Dem Liberal Democracy Index	16
6.7	Dependent Variable: POLITY2	17
6.8	Analysis with observations with institutionalized national elections	19
6.9	Analysis with imputed control variables	21
6.10	Country Fixed Effects	23

1 Proportion of Institutionalized Subnational Elections in Autocracies 1949-2010



(a) Local Elections



(b) Regional Elections

Figure A1: Proportion of Institutionalized Subnational Elections in Autocracies 1949-2010

2 The density plot of media freedom varying by subnational elections

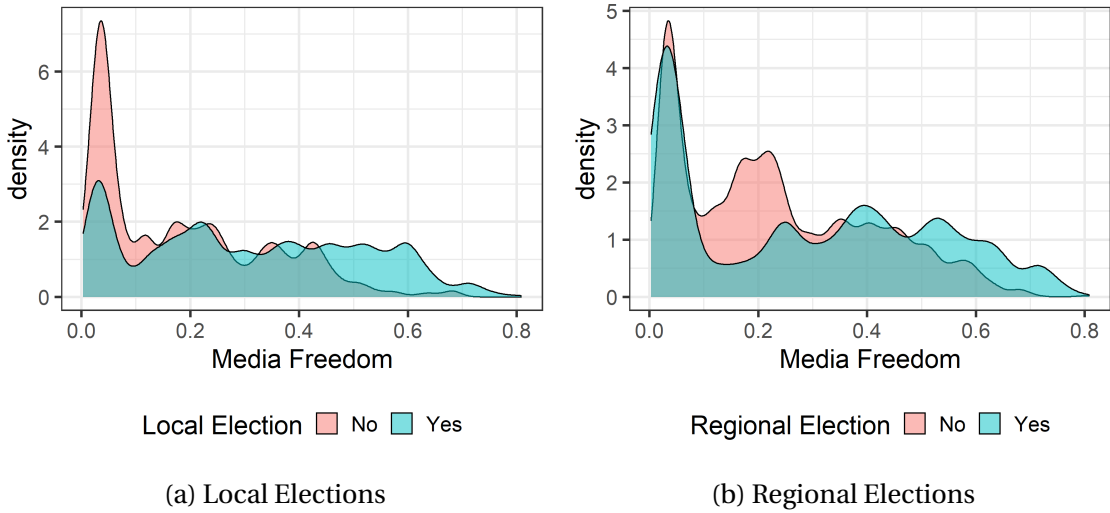


Figure A2: The Density plot of media freedom varying by subnational elections

3 National Elections and Subnational Elections in Autocracies

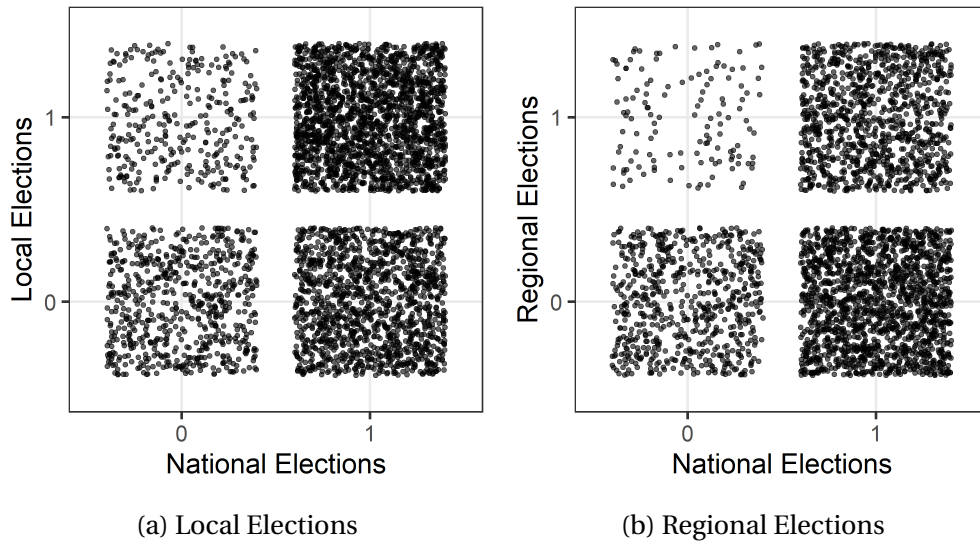
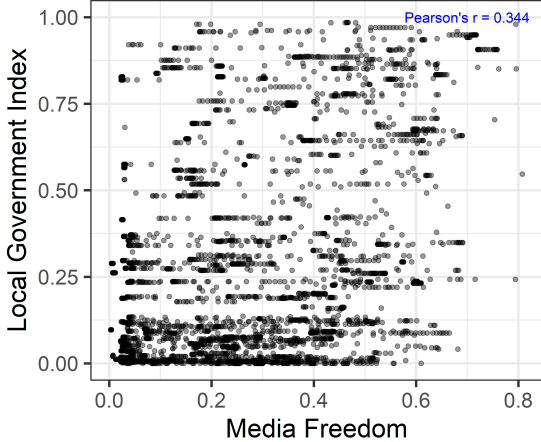
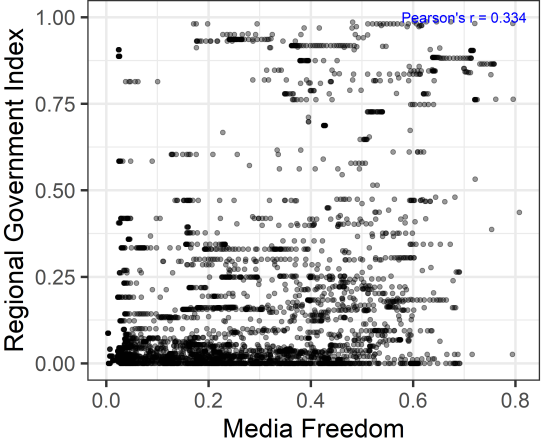


Figure A3: National Elections and Subnational Elections in Autocracies (1949-2010)

4 Relationship between Media Freedom and Subnational Government Index



(a) Local Government Index



(b) Regional Government Index

Figure A4: Relationship between Media Freedom and Subnational Government Index

5 Descriptive Statistics

5.1 Summary Statistics of Main Variables

Table A1: Summary Statistics

	Variable	Mean	SD	Min	Max
1	Regime Breakdown	0.04	0.20	0.00	1.00
2	Local Election	0.53	0.50	0.00	1.00
3	Regional Election	0.34	0.47	0.00	1.00
4	Local Quality	0.28	0.29	0.00	0.98
5	Regional Quality	0.18	0.26	0.00	0.99
6	Media Freedom	0.25	0.19	0.00	0.79
7	Personalism	0.42	0.28	0.00	1.00
8	National Election	0.77	0.42	0.00	1.00
9	ln(GDP)	7.98	0.95	5.59	11.65
10	Growth	0.02	0.10	-0.68	1.54
11	ln(oil)	11.21	10.51	0.00	26.81
12	Civil War	0.98	0.13	0.00	1.00
13	Interstate War	0.97	0.17	0.00	1.00

6 Additional Analyses

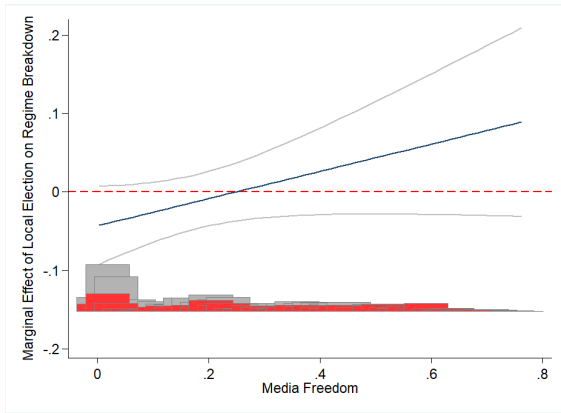
6.1 Alternative Measure of Local Election and Regional Election

In this analysis, I modify *Regional Government Elected* and *Local Government Elected* variables in a way that excludes extreme window-dressing elections. Specifically, I use 10% quantile of the *Local Government Index* and *Regional Government Index* as a threshold and change country-year observations of local(regional) election that are previously coded as 1 to 0 if local(regional) quality index is less than or equal to 10% quantile. Results are consistent ($p = 0.07$, $p = 0.09$ respectively).

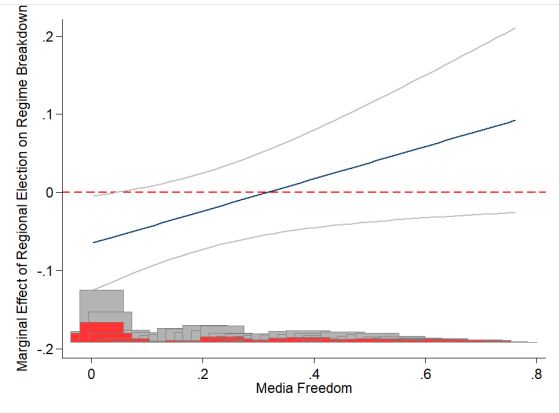
Table A2: Linear Probability Model

	DV: Regime Breakdown	
	Local	Regional
Local Election	-0.045 (0.027)	
Regional Election		-0.051 (0.035)
Media Freedom	0.236** (0.098)	0.276*** (0.085)
Local Election * Media Freedom	0.175* (0.105)	
Regional Election * Media Freedom		0.183* (0.100)
Regime-Fixed	Y	Y
Year-Fixed	Y	Y
Confounders	Y	Y
Poly(Duration,3)	Y	Y
Observations	3,611	2,999

Note: * $p < 0.1$; ** $p < 0.05$; *** $p < 0.01$
SE clustered at the regime in parentheses.



(a) Local Elections



(b) Regional Elections

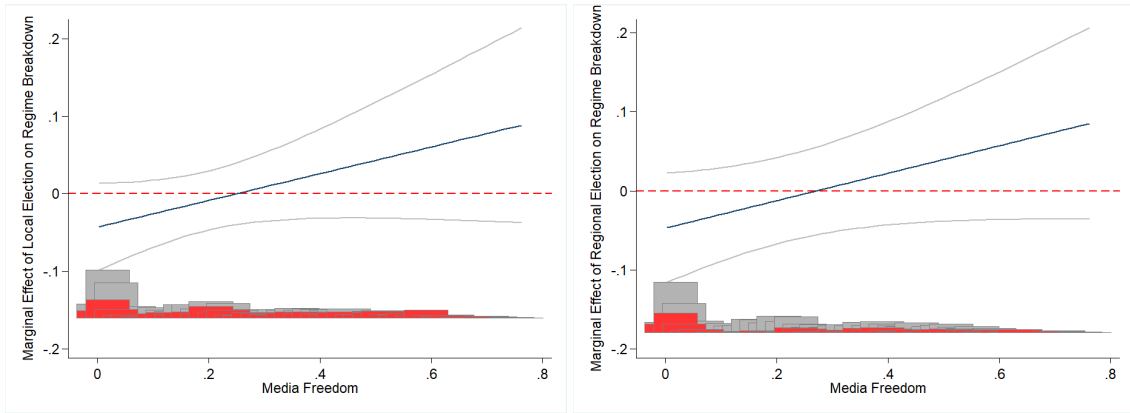
6.2 Dependent Variable: All regime failure cases

Table A3: Linear Probability Model

	DV: Regime Breakdown			
	Local	Regional	Loc Quality	Reg Quality
Local Election	-0.046 (0.028)			
Regional Election		-0.051 (0.035)		
Local Quality			-0.214*** (0.071)	
Regional Quality				-0.157** (0.079)
Media Freedom	0.235** (0.099)	0.276*** (0.085)	0.288*** (0.095)	0.284*** (0.087)
Local Election * Media Freedom	0.177* (0.106)			
Regional Election * Media Freedom		0.183* (0.100)		
Local Quality * Media Freedom			0.399** (0.200)	
Regional Quality * Media Freedom				0.443** (0.193)
Regime-Fixed	Y	Y	Y	Y
Year-Fixed	Y	Y	Y	Y
Confounders	Y	Y	Y	Y
Poly(Duration,3)	Y	Y	Y	Y
Observations	3,611	2,999	3,685	3,743

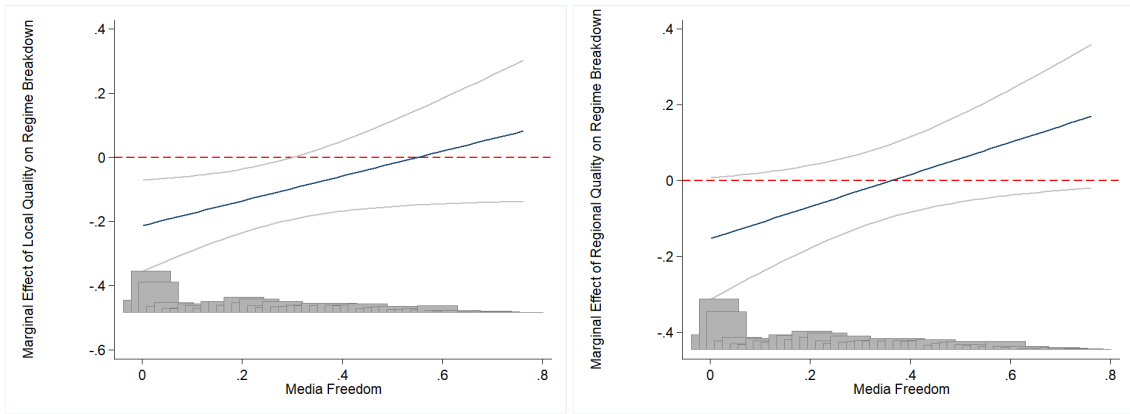
Note:

*p<0.1; **p<0.05; ***p<0.01
SE clustered at the regime in parentheses.



(a) Local Elections

(b) Regional Elections



(c) Local Government Index

(d) Regional Government Index

Figure A6: Marginal Effect of Subnational Elections on Regime Breakdown

6.3 No interaction

Table A4: Linear Probability Model

	DV: Regime Breakdown			
	Local	Regional	Loc Quality	Reg Quality
Local Election	-0.004 (0.020)			
Regional Election		-0.004 (0.026)		
Local Quality			-0.053 (0.047)	
Regional Quality				0.030 (0.050)
Media Freedom	0.347*** (0.072)	0.326*** (0.076)	0.390*** (0.076)	0.344*** (0.073)
Regime-Fixed	Y	Y	Y	Y
Year-Fixed	Y	Y	Y	Y
Confounders	Y	Y	Y	Y
Poly(Duration,3)	Y	Y	Y	Y
Observations	3,611	2,999	3,685	3,743

Note:

*p<0.1; **p<0.05; ***p<0.01
SE clustered at the regime in parentheses.

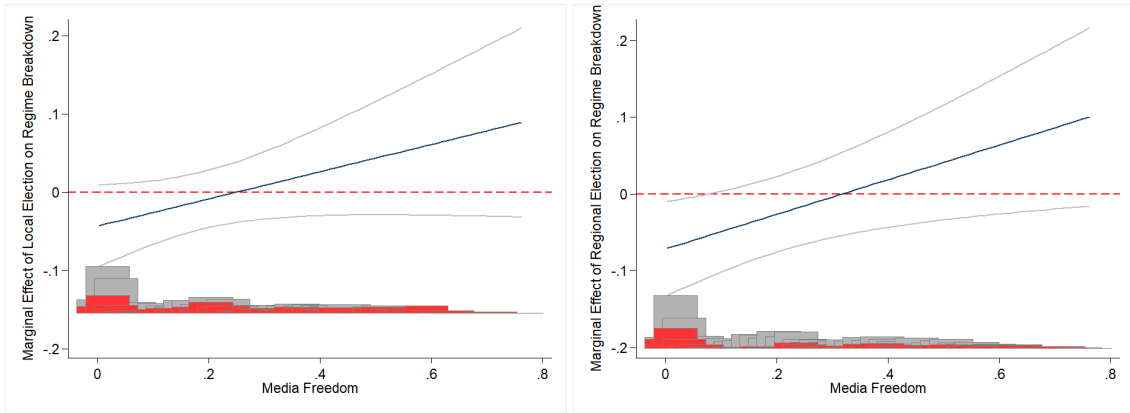
6.4 National election interaction included

Table A5: Linear Probability Model

	DV: Regime Breakdown			
	Local	Regional	Loc Quality	Reg Quality
Local Election	-0.043 (0.026)			
Regional Election		-0.072** (0.031)		
Local Quality			-0.213*** (0.070)	
Regional Quality				-0.164* (0.084)
Media Freedom	0.231* (0.125)	0.352*** (0.132)	0.274** (0.118)	0.272** (0.109)
National Election	0.004 (0.018)	0.022 (0.023)	0.005 (0.019)	0.005 (0.019)
Local Election * Media Freedom	0.174* (0.101)			
Regional Election * Media Freedom		0.226** (0.094)		
Local Quality * Media Freedom			0.436** (0.198)	
Regional Quality * Media Freedom				0.470** (0.192)
National Election * Media Freedom	-0.006 (0.075)	-0.112 (0.098)	-0.017 (0.077)	-0.007 (0.074)
Regime-Fixed	Y	Y	Y	Y
Year-Fixed	Y	Y	Y	Y
Confounders	Y	Y	Y	Y
Poly(Duration,3)	Y	Y	Y	Y
Observations	3,611	2,999	3,685	3,743

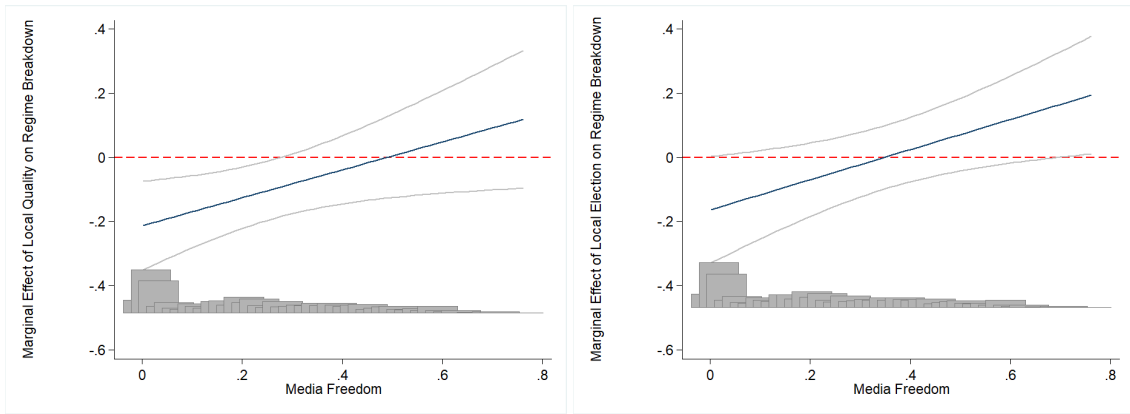
Note:

*p<0.1; **p<0.05; ***p<0.01
SE clustered at the regime in parentheses.



(a) Local Elections

(b) Regional Elections



(c) Local Government Index

(d) Regional Government Index

Figure A7: Marginal Effect of Subnational Elections on Regime Breakdown

6.5 Interaction with Human Rights Index

Table A6: Linear Probability Model

	DV: Regime Breakdown			
	Local	Regional	Loc Quality	Reg Quality
Local Election	0.027 (0.021)			
Regional Election		0.029 (0.038)		
Local Quality			0.061 (0.050)	
Regional Quality				0.116* (0.064)
Human Rights	-0.046*** (0.014)	-0.032** (0.013)	-0.037*** (0.014)	-0.035*** (0.012)
Local Election * Human Rights	0.039** (0.018)			
Regional Election * Human Rights		0.035 (0.021)		
Local Quality * Human Rights			0.040 (0.033)	
Regional Quality * Human Rights				0.054* (0.028)
Regime-Fixed	Y	Y	Y	Y
Year-Fixed	Y	Y	Y	Y
Confounders	Y	Y	Y	Y
Poly(Duration,3)	Y	Y	Y	Y
Observations	3,600	2,997	3,674	3,732

Note:

* p<0.1; ** p<0.05; *** p<0.01
SE clustered at the regime in parentheses.

6.6 Interaction with V-Dem Liberal Democracy Index

Table A7: Linear Probability Model

	DV: Regime Breakdown			
	Local	Regional	Loc Quality	Reg Quality
Local Election	0.005 (0.028)			
Regional Election		-0.035 (0.032)		
Local Quality			-0.039 (0.065)	
Regional Quality				-0.057 (0.070)
Liberalization	0.456** (0.191)	0.365** (0.159)	0.409** (0.168)	0.349** (0.139)
Local Election * Liberalization	0.010 (0.177)			
Regional Election * Liberalization		0.243 (0.193)		
Local Quality * Liberalization			0.199 (0.347)	
Regional Quality * Liberalization				0.386 (0.254)
Regime-Fixed	Y	Y	Y	Y
Year-Fixed	Y	Y	Y	Y
Confounders	Y	Y	Y	Y
Poly(Duration,3)	Y	Y	Y	Y
Observations	3,591	2,979	3,665	3,723

Note:

* p<0.1; ** p<0.05; *** p<0.01
SE clustered at the regime in parentheses.

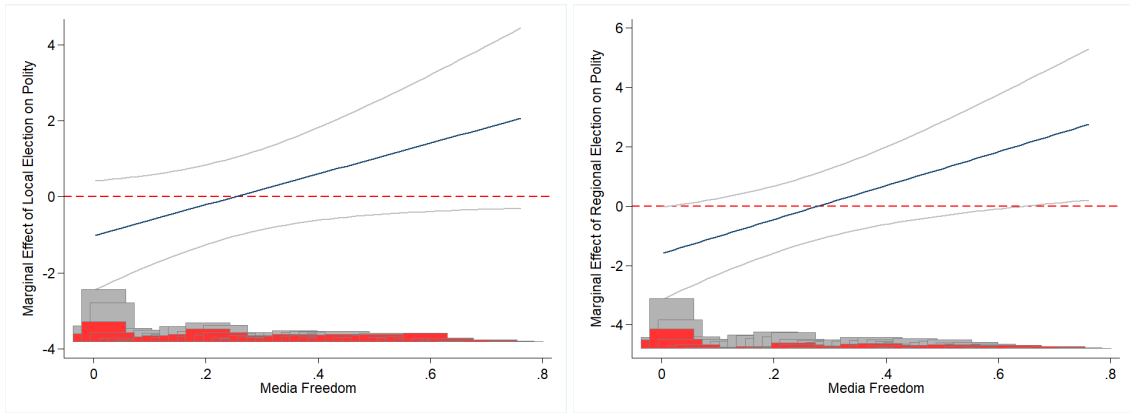
6.7 Dependent Variable: POLITY2

Table A8: Linear Regression Model

	DV: Polity2			
	Local	Regional	Loc Quality	Reg Quality
Local Election	-1.019 (0.730)			
Regional Election		-1.592** (0.785)		
Local Quality			-1.754 (1.436)	
Regional Quality				-1.519 (1.586)
Media Freedom	13.674*** (2.025)	14.177*** (2.088)	14.164*** (2.034)	14.690*** (1.996)
Local Election * Media Freedom	4.057* (2.087)			
Regional Election * Media Freedom		5.710** (2.243)		
Local Quality * Media Freedom			7.180** (3.517)	
Regional Quality * Media Freedom				9.348** (4.117)
Regime-Fixed	Y	Y	Y	Y
Year-Fixed	Y	Y	Y	Y
Confounders	Y	Y	Y	Y
Poly(Duration,3)	Y	Y	Y	Y
Observations	3,585	2,975	3,659	3,717

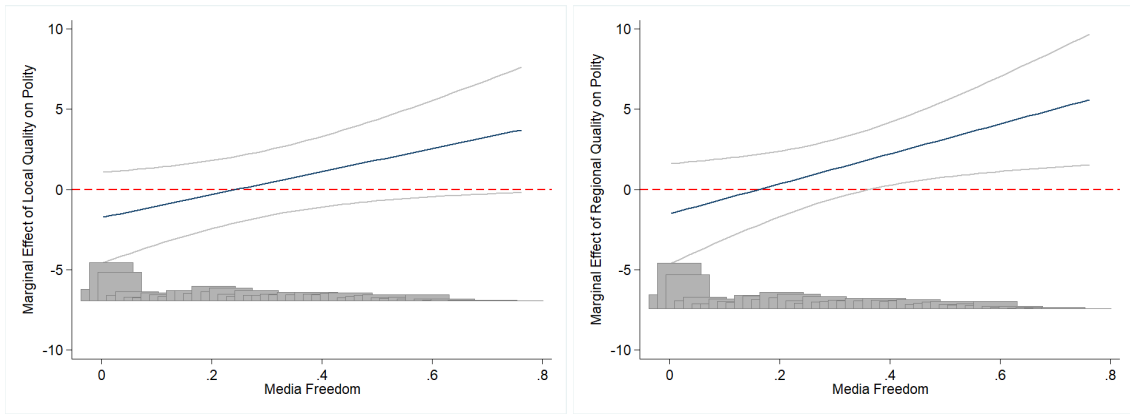
Note:

* p<0.1; ** p<0.05; *** p<0.01
SE clustered at the regime in parentheses.



(a) Local Elections

(b) Regional Elections



(c) Local Government Index

(d) Regional Government Index

Figure A8: Marginal Effect of Subnational Elections on Regime Breakdown

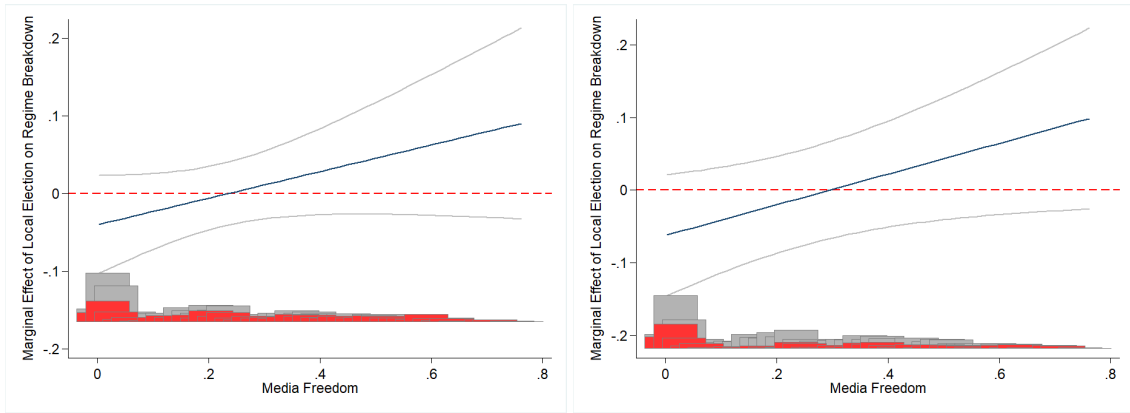
6.8 Analysis with observations with institutionalized national elections

Table A9: Linear Probability Model

	DV: Regime Breakdown			
	Local	Regional	Loc Quality	Reg Quality
Local Election	-0.044 (0.032)			
Regional Election		-0.067 (0.042)		
Local Quality			-0.203** (0.087)	
Regional Quality				-0.112 (0.141)
Media Freedom	0.185* (0.096)	0.205** (0.087)	0.237** (0.106)	0.239*** (0.092)
Local Election * Media Freedom	0.181* (0.108)			
Regional Election * Media Freedom		0.221** (0.105)		
Local Quality * Media Freedom			0.416* (0.229)	
Regional Quality * Media Freedom				0.448* (0.266)
Regime-Fixed	Y	Y	Y	Y
Year-Fixed	Y	Y	Y	Y
Confounders	Y	Y	Y	Y
Poly(Duration,3)	Y	Y	Y	Y
Observations	2,808	2,336	2,896	2,919

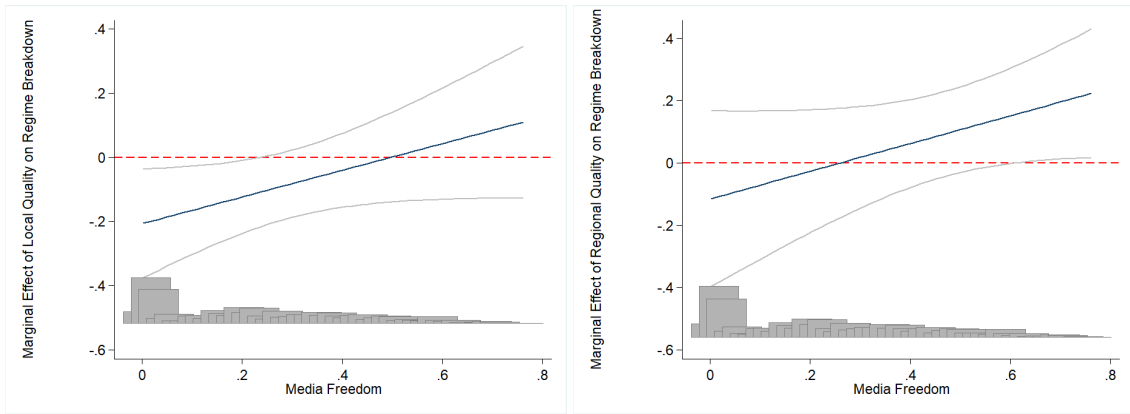
Note:

* p<0.1; ** p<0.05; *** p<0.01
SE clustered at the regime in parentheses.



(a) Local Elections

(b) Regional Elections



(c) Local Government Index

(d) Regional Government Index

Figure A9: Marginal Effect of Subnational Elections on Regime Breakdown

6.9 Analysis with imputed control variables

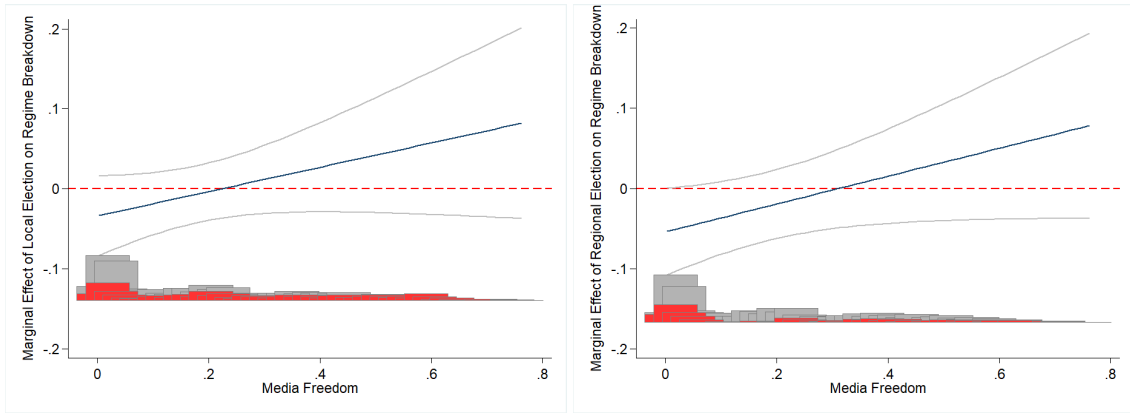
I use Amelia II by Honaker et al. (2011) to impute missing values of control variables.

Table A10: Linear Probability Model

	DV: Regime Breakdown			
	Local	Regional	Loc Quality	Reg Quality
Local Election	-0.034 (0.025)			
Regional Election		-0.054* (0.027)		
Local Quality			-0.203*** (0.066)	
Regional Quality				-0.162* (0.085)
Media Freedom	0.240*** (0.091)	0.271*** (0.076)	0.262*** (0.087)	0.274*** (0.079)
Local Election * Media Freedom	0.152 (0.099)			
Regional Election * Media Freedom		0.174* (0.093)		
Local Quality * Media Freedom			0.422** (0.189)	
Regional Quality * Media Freedom				0.430** (0.186)
Regime-Fixed	Y	Y	Y	Y
Year-Fixed	Y	Y	Y	Y
Confounders	Y	Y	Y	Y
Poly(Duration,3)	Y	Y	Y	Y
Observations	4,150	3,418	4,216	4,288

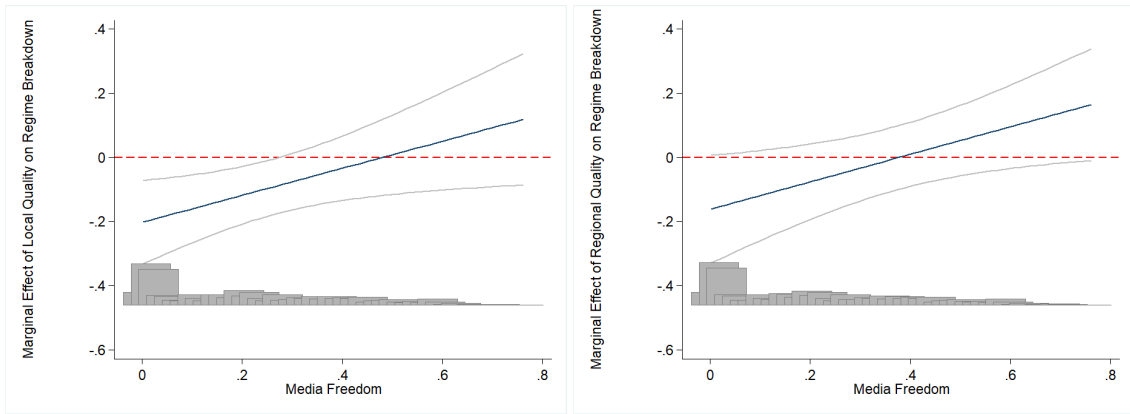
Note:

*p<0.1; **p<0.05; ***p<0.01
SE clustered at the regime in parentheses.



(a) Local Elections

(b) Regional Elections



(c) Local Government Index

(d) Regional Government Index

Figure A10: Marginal Effect of Subnational Elections on Regime Breakdown

6.10 Country Fixed Effects

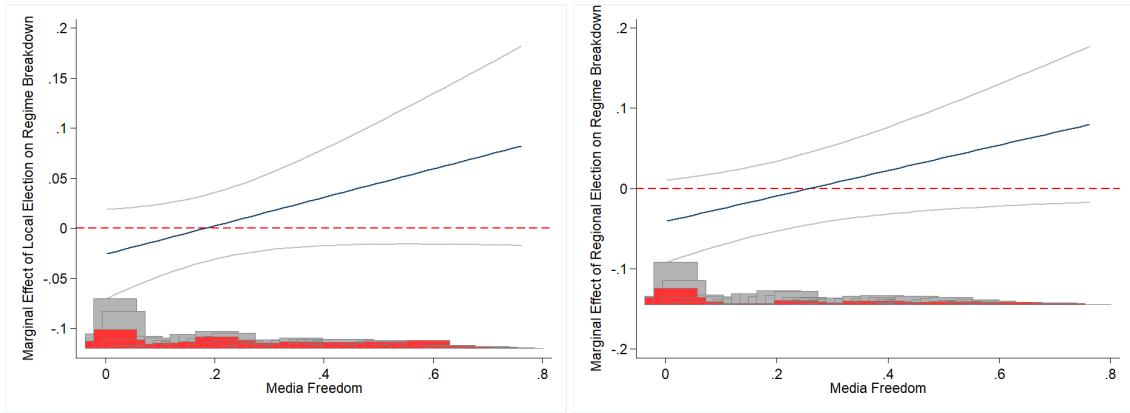
Table A11 replicates Table 1 and Table 2 with country fixed effects and regime type controls.

Table A11: Linear Probability Model

	DV: Regime Breakdown								
	Local	Regional	Loc Quality	Reg Quality	National Elec	Local	Regional	Loc Quality	Reg Quality
Local Election	-0.025 (0.023)					0.014 (0.028)			
Regional Election		-0.031 (0.026)					-0.026 (0.027)		
Local Quality			-0.111* (0.064)					0.016 (0.058)	
Regional Quality				-0.167** (0.076)					-0.112* (0.065)
Media Freedom	0.218*** (0.071)	0.285*** (0.065)	0.244*** (0.075)	0.246*** (0.062)	0.439*** (0.091)				
Liberalization						0.435** (0.182)	0.424*** (0.156)	0.492*** (0.149)	0.357*** (0.121)
National Election	-0.012 (0.013)	-0.010 (0.014)	-0.007 (0.013)	-0.007 (0.013)	0.012 (0.017)	-0.028* (0.014)	-0.022 (0.015)	-0.025* (0.014)	-0.019 (0.014)
Local Election * Media Freedom	0.152* (0.082)								
Regional Election * Media Freedom		0.149* (0.076)							
Local Quality * Media Freedom			0.320** (0.162)						
Regional Quality * Media Freedom				0.439*** (0.159)					
National Election * Media Freedom					-0.116 (0.076)				
Local Election * Liberalization						0.063 (0.178)			
Regional Election * Liberalization							0.288 (0.185)		
Local Quality * Liberalization								0.059 (0.304)	
Regional Quality * Liberalization									0.557** (0.235)
Country-Fixed	Y	Y	Y	Y	Y	Y	Y	Y	Y
Year-Fixed	Y	Y	Y	Y	Y	Y	Y	Y	Y
Confounders	Y	Y	Y	Y	Y	Y	Y	Y	Y
Poly(Duration,3)	Y	Y	Y	Y	Y	Y	Y	Y	Y
Observations	3,611	2,999	3,685	3,743	3,763	3,591	2,979	3,665	3,723

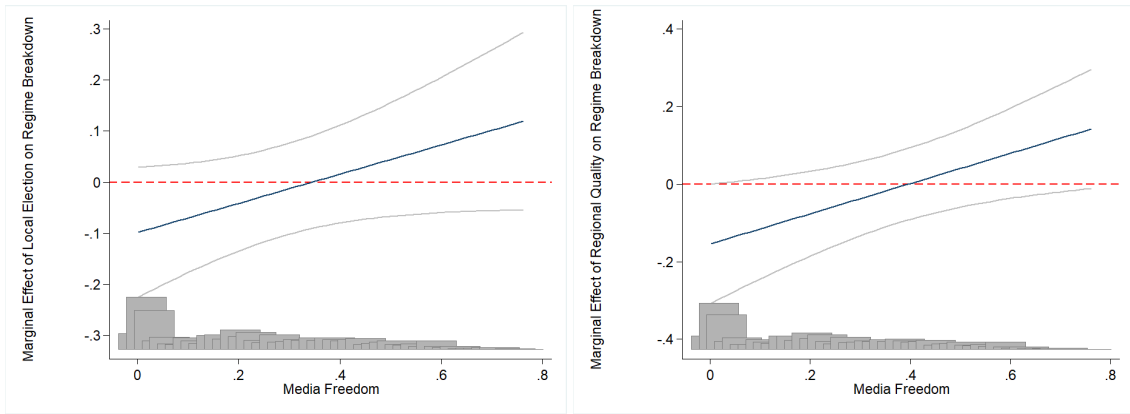
Note:

*p<0.1; **p<0.05; ***p<0.01
SE clustered at the country in parentheses.



(a) Local Elections

(b) Regional Elections



(c) Local Government Index

(d) Regional Government Index

Figure A11: Marginal Effect of Subnational Elections on Regime Breakdown

References

Honaker, James, Gary King, Matthew Blackwell et al. 2011. "Amelia II: A program for missing data." *Journal of statistical software* 45(7):1–47.